

NEW HOME OF H. G. FISCHER & CO.

## United States Navy



BUREAU OF MEDICINE AND SURGERY  
Certificate of Achievement

*H. G. Fischer & Co.*

In grateful acknowledgment of exceptional cooperation and outstanding services rendered to the Medical Department of the Navy during the period of World War II

*O. J. Wilson*  
Rear Admiral, MCUSA  
Surgeon General of the Navy



**H. G. FISCHER & CO.**  
FRANKLIN PARK, ILLINOIS  
Manufacturers of high quality X-ray and electromedical equipment since 1910.

Holders of the U. S. Army-Navy "E" Award with three additional awards represented by the stars on the flag, and holders of the U. S. Navy Certificate of Achievement — all for outstanding services rendered.

This series of awards constitutes the most signal recognition granted any manufacturer of x-ray equipment.

Producing — in a new 82,000 sq. ft. factory — efficient, durable, attractive apparatus, which offers customers the greatest value per dollar expended obtainable in the entire industry.

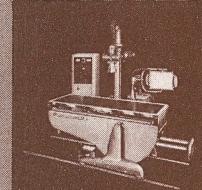
OVER 100,000 SATISFIED USERS THROUGHOUT THE WORLD

**H. G. FISCHER & CO.**

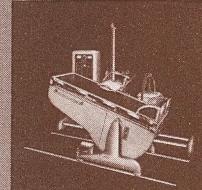
9451-91 W. BELMONT AVE. • FRANKLIN PARK, ILLINOIS

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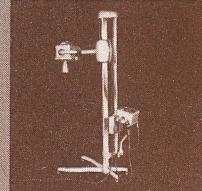
PRINTED IN U. S. A.



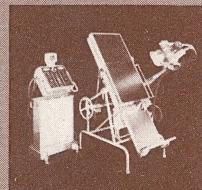
De Luxe Model "RF"  
250 Milliampere X-ray  
Apparatus with Hand-  
Rocked or Motor-Driv-  
en Table.



De Luxe Model "RF"  
100 Milliampere X-ray  
Apparatus with Hand-  
Rocked or Motor-Driv-  
en Table.



Model "MPA" 20 or  
30 Milliampere Mobile-  
Portable Shockproof  
X-ray Apparatus.



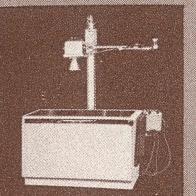
100 Milliampere X-ray  
Unit with Urological  
Table.



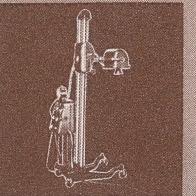
Table Model "200"  
Short Wave Dia-  
thermy Unit.



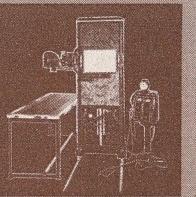
De Luxe Model "400"  
Short Wave Dia-  
thermy Unit.



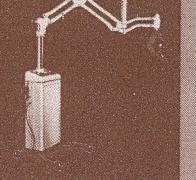
"Spacesaver" 30 Milli-  
ampere Shockproof X-  
ray Apparatus and  
Examining Table.



Model "TC" 30 or 50  
Milliampere Shock-  
proof X-ray Apparatus.



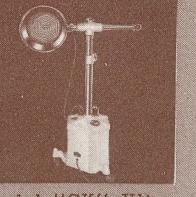
Model "TF" 30 or 50  
Milliampere Shock-  
proof Fluoroscope  
with Radiographic  
Facilities.



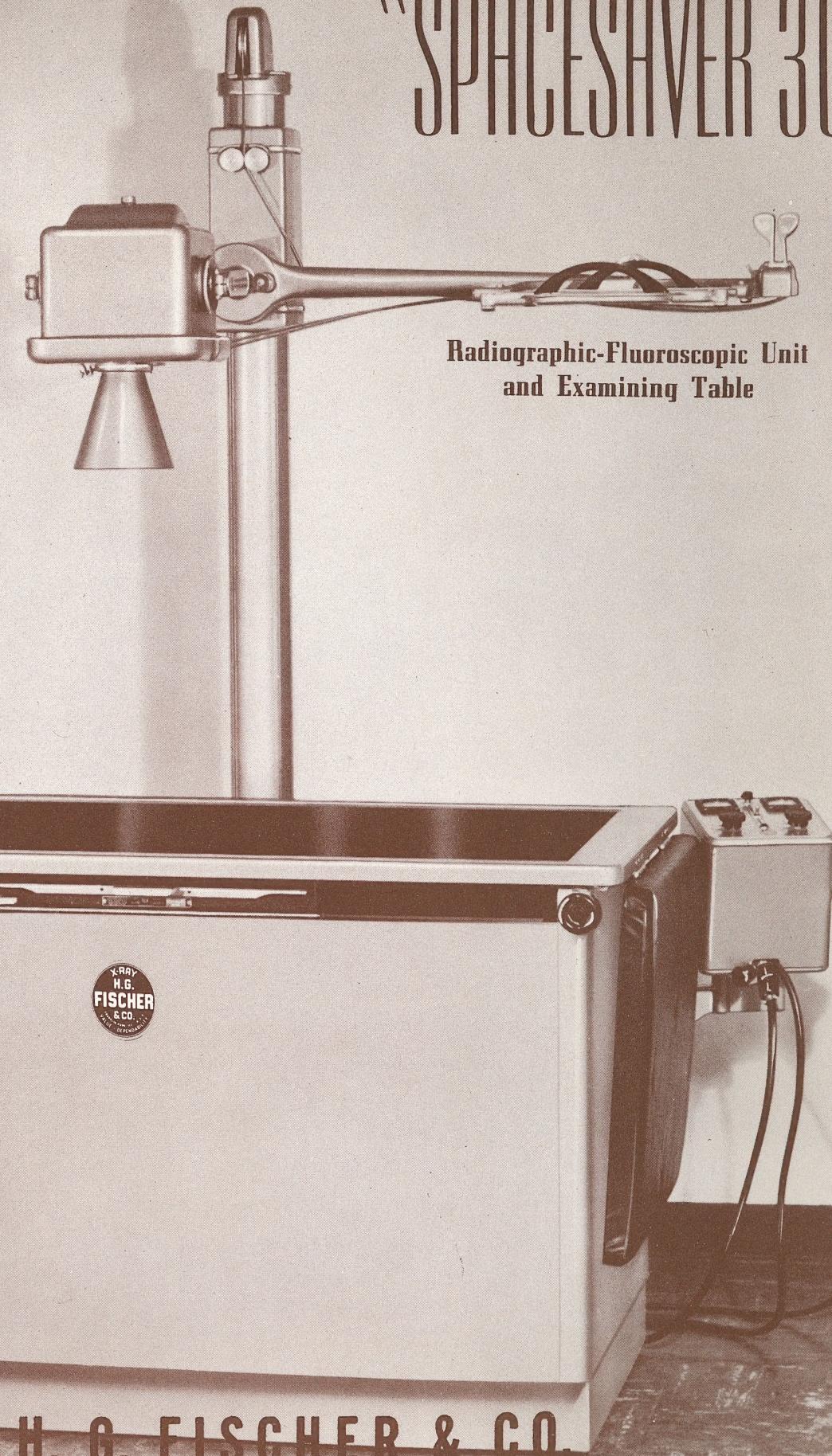
Model "CMDX" Mo-  
bile Shockproof Den-  
tal X-ray.



Model "J" Galvanic  
and Contractile Cur-  
rents Generator.



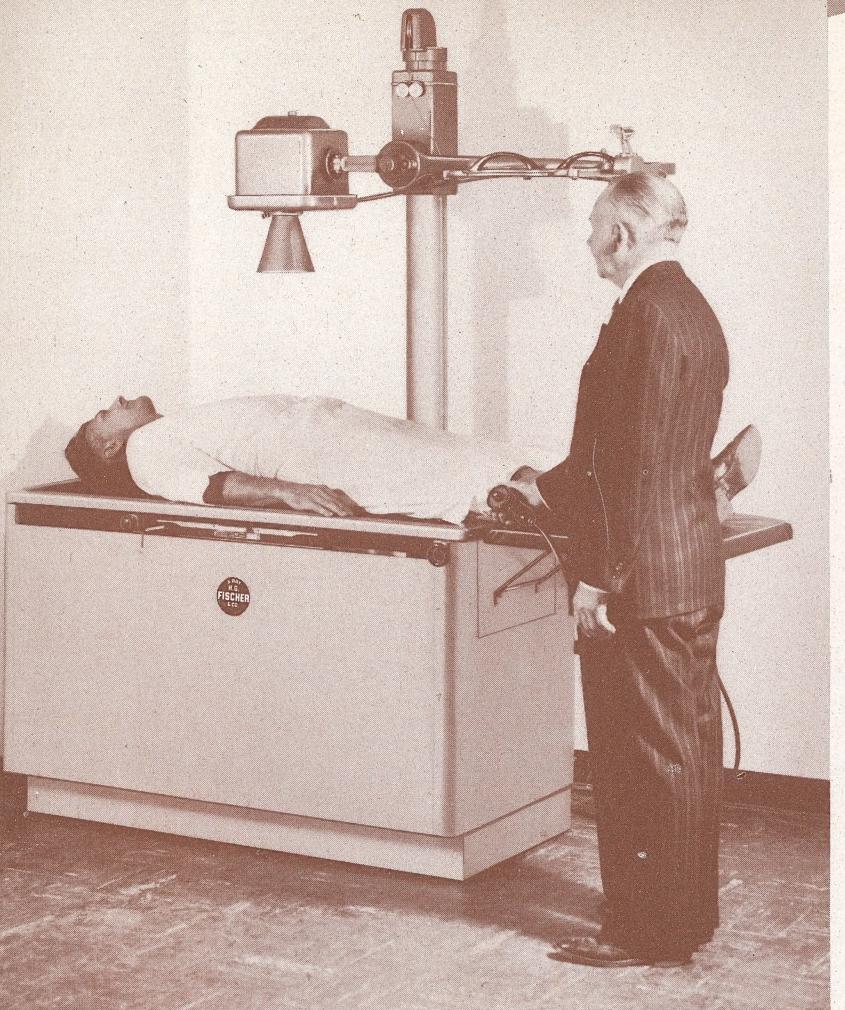
Model "CK" Ultra  
Violet Generator.



**H. G. FISCHER & CO.**

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# "SPACESAVER 30"



## FISCHER "Spacesaver 30"

Low in Price

High in Quality

Greatest Value per Dollar Expended

Proven Dependability

### RADIOGRAPHIC-FLUOROSCOPIC UNIT AND EXAMINING TABLE

The FISCHER "Spacesaver 30" Combination Radiographic-Fluoroscopic Unit and Examining Table is an outstanding development in the FISCHER complete line of modern, shockproof x-ray equipment. This great line is distinguished for exceptional performance and great durability. The "Spacesaver 30" is the most compact of all x-ray apparatus of such power and versatility. It was designed to occupy a minimum amount of floor space and to give dependable performance with the least effort on the part of the operator. It may be used as an every day examining table as well as an x-ray apparatus. In approximately the same space required for an ordinary examining table you can, in the case of the "Spacesaver 30," have not only an examining table but also a complete x-ray plant.

**HORIZONTAL RADIOGRAPHY**—Any part of a patient's body can easily be radiographed in the horizontal position. The examining table is 26 $\frac{1}{4}$  inches wide and 73 inches long—capable of accommodating any patient. The tubehead travels up and down and across the cabinet, giving a complete range of operation. Either a standard Bucky diaphragm or a stationary grid may be used. The Bucky or grid tray is on a continuous track running the entire length of the cabinet, and the Bucky is mounted on ball bearing rollers.

### IDEAL FOR GENERAL PRACTITIONER

The FISCHER "Spacesaver 30" is ideal for the general practitioner. The great range of its uses is as amazing as the ease with which it functions. It can be switched from positions for horizontal fluoroscopic work to positions for horizontal radiographic work, and vice-versa, by a simple swing of the tubehead. The change to vertical fluoroscopic and vertical radiographic positions is equally as easily accomplished.

### 121 KILOVOLTAGE REGULATIONS

The control is compactly mounted on the cabinet. It has 121 steps of kilovoltage regulations, making possible the universally recognized, valuable, thickness-of-part technic for most accurate radiographic end results. A control with this large number of steps of kilovoltage regulation is rarely found in other than the most expensive equipment. This is another Extra Value feature offered in the FISCHER "Spacesaver 30."

The control is so constructed that when the Bucky diaphragm is used the timing of the x-ray exposure is done by the x-ray timer and not by the less accurate timing mechanism incorporated in all Bucky diaphragms.

**VERTICAL RADIOGRAPHY**—The tubehead is turned and aimed at a patient standing against a wall-mounted cassette holder at the correct distance. Vertical radiographs can be made at either end or either side of the table.

### SPECIAL FEATURES

Both horizontal and vertical radiography and fluoroscopy.

Minimum floor space.

Minimum operating effort.

Standard Bucky diaphragm travels full length of cabinet.

Power sufficient for all radiographic and fluoroscopic work usually encountered in general practice.

Voltage factor sufficient for superficial therapy.

Absolute safety for operator and patient.

Outstandingly designed by skilled FISCHER x-ray engineers with over 39 years experience.

Built by FISCHER expert craftsmen, using the finest materials and methods for great dependability and durability.

### PLUGS IN OFFICE WALL OUTLET

It will be found that excellent radiographic and fluoroscopic results will be obtained from the "Spacesaver 30" when operating from only the usual office wall plug outlet of 110 volts, 50-60 cycles. This type of line, while not always adequate for the maximum radiographic output of which the machine is capable, will suffice for by far the greater portion of usual radiographic requirements and serve for maximum efficiency in fluoroscopy.

In order to obtain the maximum milliamperage and kilovoltage factors of which the machine is capable it may be necessary in some locations, due to an inadequate line, to install heavier wiring for either 110 or 220 volts. This will not be necessary in the majority of installations for the reason that for fluoroscopy the maximum efficiency of the machine may be obtained on all lines and a line sufficient for only 20 milliamperes will be found adequate for excellent radiographic results. Provisions are made in the control unit to operate on either 110 or 220 volt 50-60 cycle current.

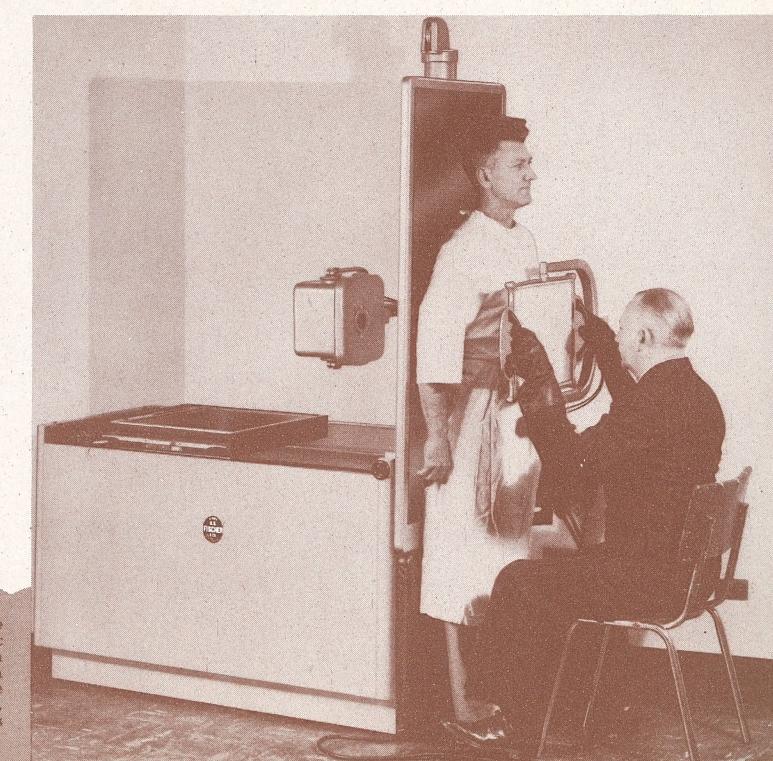
### STANDARD 14" x 17" BUCKY CAN BE USED

In the knowledge that the use of a Bucky diaphragm is so universally preferred—in fact demanded—by most physicians skilled in x-ray work, the FISCHER "Spacesaver" was designed to make possible the most efficient use of a standard Bucky diaphragm to its full and normal extent. We believe that no similar equipment of other manufacture has this advantage to anything like the same degree.

When it is preferred to save the relatively



**HORIZONTAL FLUOROSCOPY**—The changing from the horizontal radiographic to the horizontal fluoroscopic position, or the reverse, is made without moving patient from table. This feature is especially advantageous when, for example, after setting a broken bone with the aid of the fluoroscope, it is desired to radiograph the results for permanent records. The fluoroscopic field is 48 inches long and may be utilized in its entirety by merely moving the Bucky or grid out of the anatomical area under examination.



**VERTICAL FLUOROSCOPY**—The table top is raised and locked in the vertical position, forming a thoroughly adequate vertical fluoroscopic panel for the patient to lean against. The tubehead is then rotated on its horizontal axis 90° from the radiographic position. The 12-by-16-inch fluorescent screen is automatically centered with the tubehead. The fluoroscopic shutters are attached to the tubehead so that at all times, in either the horizontal or vertical position, maximum protection is assured.

## SPECIAL FEATURES

Both horizontal and vertical radiography and fluoroscopy.  
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Minimum operating effort.  
Standard Bucky diaphragm travels full length of cabinet.  
Power sufficient for all radiographic and fluoroscopic work usually encountered in general practice.  
Voltage factor sufficient for superficial therapy.  
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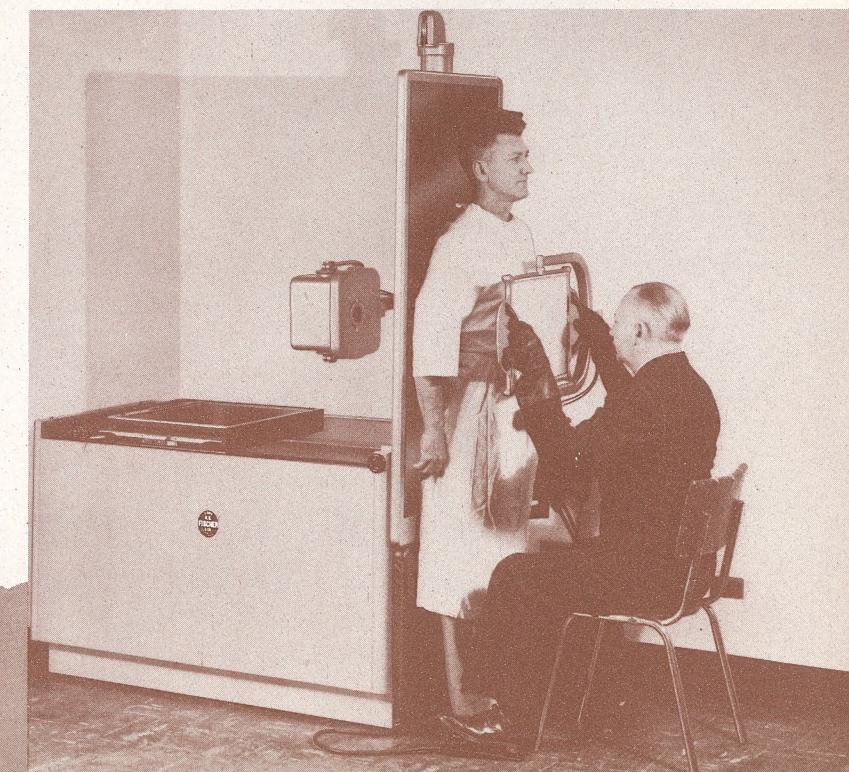
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In order to obtain the maximum milliamperage and kilovoltage factors of which the machine is capable it may be necessary in some locations, due to an inadequate line, to install heavier wiring for either 110 or 220 volts. This will not be necessary in the majority of installations for the reason that for fluoroscopy the maximum efficiency of the machine may be obtained on all lines and a line sufficient for only 20 milliamperes will be found adequate for excellent radiographic results. Provisions are made in the control unit to operate on either 110 or 220 volt 50-60 cycle current.

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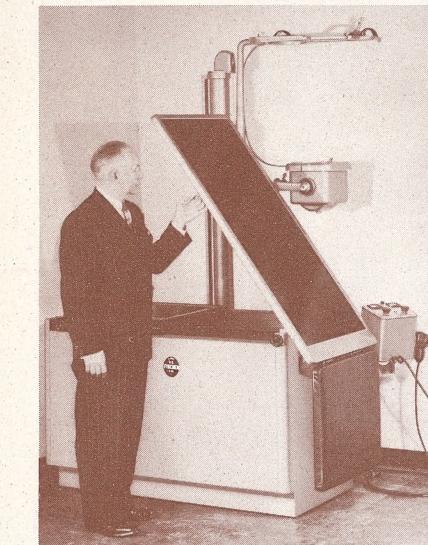
small difference in cost between a standard Bucky and a stationary grid with removable support and tray, a stationary grid may be used with the "Spacesaver," but a stationary grid gives much less satisfactory results than does a Bucky.

The "Spacesaver" is designed to provide for a Bucky diaphragm to cover the entire length of the cabinet.

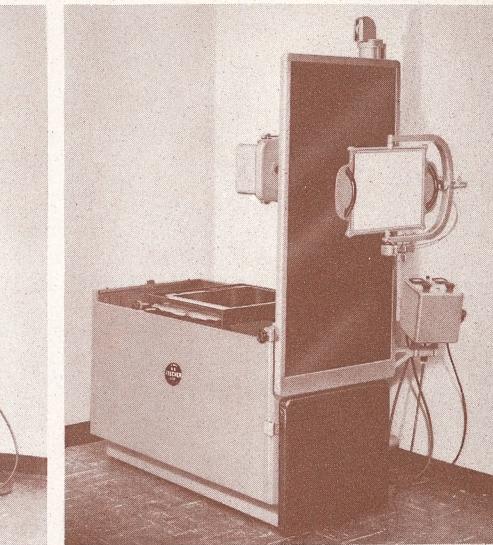
### FULL SIZE 12" x 16" FLUOROSCOPIC SCREEN

A Patterson Type B-2 full size 12" x 16" fluoroscopic screen is included with the FISCHER "Spacesaver 30" at no additional cost. This is a much more expensive item than the toy-size screens usually found on competitive equipment. The size and quality of the FISCHER "Spacesaver 30" fluoroscopic screen satisfy the needs of specialists. The shutter controls are located on the screen support where they are most convenient for the operator.

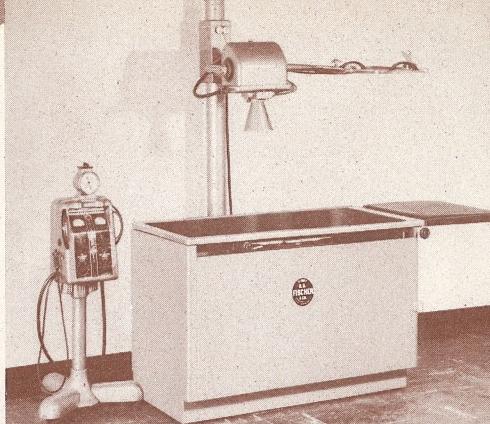
Finish of the "Spacesaver 30" is an attractive, lasting, hammered gray.



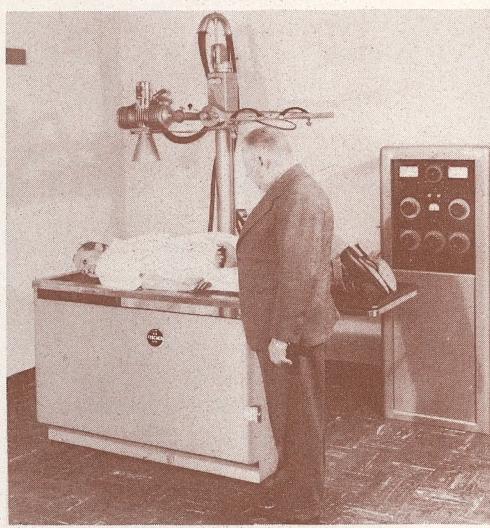
The table top is compound hinged at one end and can easily be raised to the vertical position, where it automatically locks.



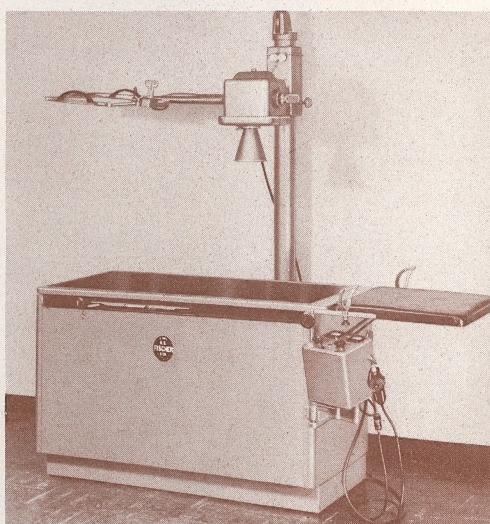
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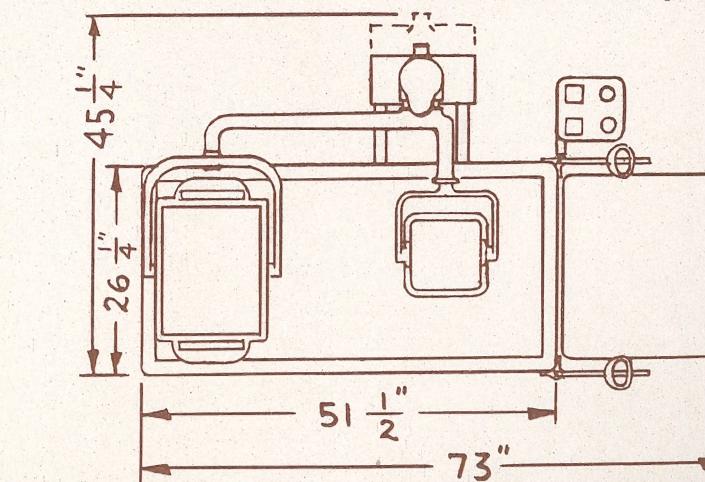
"Spacesaver 50" Combination Radiographic-Fluoroscopic Unit and Examining Table with remote, mobile control.



"Spacesaver 100" with High Tension Transformer and De Luxe Automatic Control. General appearance of "Spacesaver 250" is same as above.

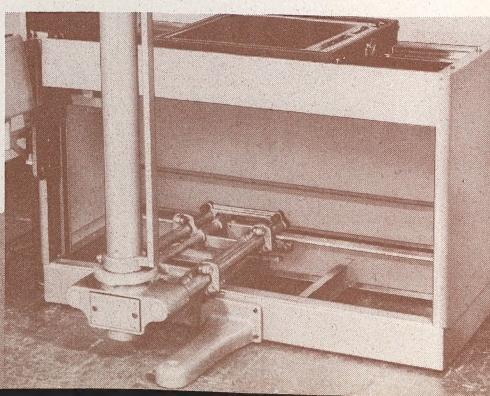


The control may be mounted on the front of the cabinet, as shown above, or on the back of the cabinet, as shown at left.



Floor plan view with dimensions of the FISCHER "Spacesaver 30". Scale 1/2 inch = 1 foot. It is practical to operate "Spacesaver 50" in same floor space required by "Spacesaver 30". "Spacesaver 100" with High Tension Transformer and De Luxe Automatic Control, or Standard Mobile Control, occupies 84" x 50" floor space. "Spacesaver 250" with High Tension Transformer and De Luxe Automatic Control occupies 99" x 50" floor space.

The rigid, sturdy, channel construction details are shown in this rear view of the FISCHER "Spacesaver 30".



# CONSTRUCTION Features OPERATION

## MECHANICAL

**PATIENT NOT DISTURBED** when changing from horizontal fluoroscopy to horizontal radiography. Tubehead is easily swung out from under table, raised and swung to radiographic position over table.

**TABLE** doubles as every-day examining table and x-ray table. Top is compound hinged and raises easily to function as vertical fluoroscopic panel. Stirrups are available for use on the examining table. Table dimensions are 26 $\frac{1}{4}$ " wide and 73" long.

**TUBEHEAD** travels up and down and across the cabinet giving complete range of operation. It has a cross travel shift feature for making stereoscopic views. Housing is leakproof seamless drawn steel. Swinging arm supporting tubehead and fluoroscopic screen is counterbalanced and automatically locks in fluoroscopic and radiographic positions.

**VERTICAL TUBE COLUMN** for tubehead rotates 360°. Carriage cross members are solid steel bars to eliminate sagging. Eccentric bearings used where necessary to permit adjustment to eliminate play.

**FULL-SIZE FLUOROSCOPIC SCREEN**, 12" x 16" Patterson Type B-2, has  $\frac{1}{4}$ " lead glass protection. Shutter controls are on the screen staging. Screen automatically centers with tubehead in fluoroscopic position.

**STANDARD BUCKY DIAPHRAGM** size 14" x 17", may be used. Bucky is mounted on ball bearings and travels full length of cabinet. Stationary grid may also be used. Bucky or grid tray can be moved out of fluoroscopic field under observation.

**CABINET** is of rigid, sturdy, channel construction. "Spacesaver 30" control can be mounted on the front or on the back of the cabinet. "Spacesaver 250", "Spacesaver 100", and "Spacesaver 50" all have remote control. Leveling devices permit exact leveling of entire unit.

**Doctor**

## May we ask you to CONSIDER

1. How an X-ray would increase your services to your patients.
2. What a great convenience it would be to them and to you.
3. How safe, compact, durable and easily operated today's models are.
4. How an X-ray produces a substantial income.
5. How little cash outlay is required to install X-ray equipment which almost always is more than a self-liquidating investment.

## ELECTRICAL

**HIGH OUTPUT** on adequate lines: "Spacesaver 30" capacity is 30 MA at 74 KVP, 25 MA at 80 KVP, 20 MA at 85 KVP, 5 MA at 96 KVP—all useful kilovoltages.

**WALL OUTLET ADEQUATE** for operation of "Spacesaver 30" on average office lighting circuit up to 20 MA at 85 KVP. It operates on 110V or 220V, 50-60 cycles.

**121-STEP CONTROL** of kilovoltage regulation permits the universally used thickness-of-part technic for most accurate radiographic end results. Changes of less than two kilovolts each are possible. This is an Extra Value feature at no additional cost.

**EXACT KILOVOLTS** register on accurate meter for all milliamperes values.

**HEAVY-DUTY CONTACTOR** breaks transformer primary current.

**TRANSFORMER CORE** construction makes it possible to reduce size of tubehead with increased efficiency.

**ACCURATE TIMER**,  $\frac{1}{4}$  second to 12 seconds, with built-in contacts automatically trips Bucky and times exposure. The x-ray timer is much more reliable than the less accurate Bucky timing mechanism.

**FOOT SWITCH** actuates heavy-duty contactor. Neon light on foot switch to facilitate locating it in dark room while making fluoroscopic examinations.

**PLUG CONNECTIONS** on control for plugging in foot switch, timer and x-ray head inter-connecting cable.

**VOLTAGE TAPS** on control permit operation of unit on 110V, 120V, 220V, or 240V, 50-60 cycle lines.

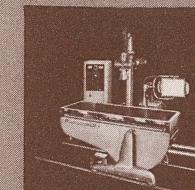
**X-RAY PROTECTION** at tubehead in accordance with standards adopted by International Radium and X-ray Commission and is equivalent to 1.5 mm of lead.

**3 EXPANSION CHAMBERS** to allow for oil expansion.

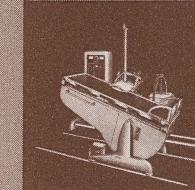
**PILOT LIGHT** indicates when control is energized.

Cat. No.	DESCRIPTION	Code
5188	FISCHER "Spacesaver 250" with DeLuxe Automatic Control, 1/20 second Automatic Reset Timer and Foot Switch.....	HOCOH
5186	FISCHER "Spacesaver 100" with DeLuxe Automatic Control, 1/10 second Automatic Reset Timer and Foot Switch.....	HELM5
5187	FISCHER "Spacesaver 100" with Standard Mobile Control, 1/10 second Automatic Reset Timer and Foot Switch.....	HEXAR
5185	FISCHER "Spacesaver 50," including remote control on mobile stand, synchrotimer and foot switch.....	HAPAN
5166	FISCHER "Spacesaver 30" with Foot Switch.....	HADDY
5172	20-line grid 14" x 17" $\frac{1}{2}$ second 30" focal distance Bucky with magnetic release, x-ray timing contacts, rollers and Bucky connecting cord .....	HAGUS
408H	Timer and Cable for "Spacesaver 30".....	TASER
4736	Cone .....	TIPPS
5175	Stirrups .....	HAINE
5176	Pad for Table Top.....	HAITT
5177	30" focal distance stationary aligned grid—size 14" x 17".....	HADAN
5178	Moveable support and tray for cassette and stationary grid.....	HADAT

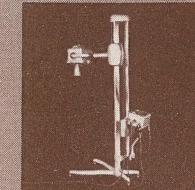
Prices subject to change without notice. F.O.B. Franklin Park, Ill.



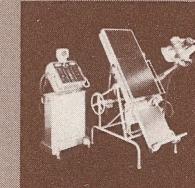
De Luxe Model "RF" 250 Milliamperc X-ray Apparatus with Hand-Rocked or Motor-Driven Table.



De Luxe Model "RF" 100 Milliamperc X-ray Apparatus with Hand-Rocked or Motor-Driven Table.



Model "MPA" 20 or 30 Milliamperc Mobile-Portable Shock-proof X-ray Apparatus.



100 Milliamperc X-ray Unit with Urological Table.

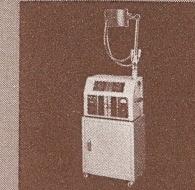
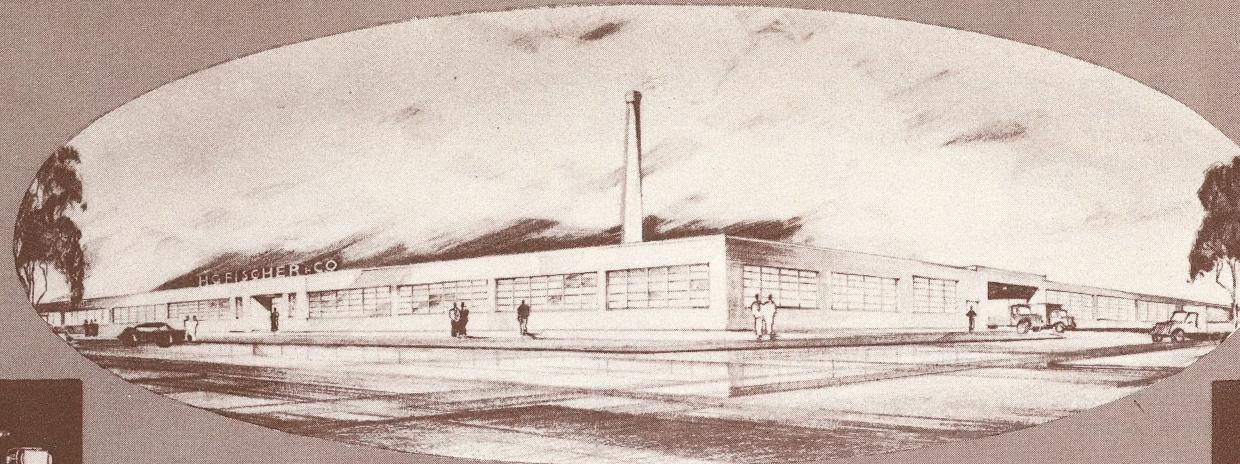


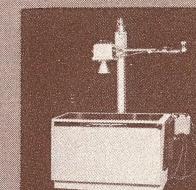
Table Model "200" Short Wave Diathermy Unit.



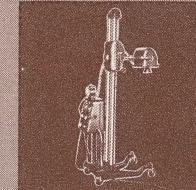
De Luxe Model "400" Short Wave Diathermy Unit.



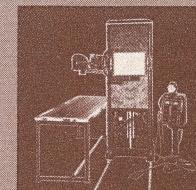
NEW HOME OF H. G. FISCHER & CO.



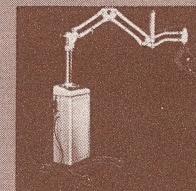
"Spacesaver" 30 Milliamperc Shockproof X-ray Apparatus and Examining Table.



Model "TC" 30 or 50 Milliamperc Shock-proof X-ray Apparatus.



Model "TF" 30 or 50 Milliamperc Shock-proof Fluoroscope with Radiographic Facilities.



Model "CMDX" Mobile Shockproof Dental X-ray.



Model "J" Galvanic and Contractile Currents Generator.



Model "CK" Ultra Violet Generator.

## United States Navy



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Rear Admiral, M.C.U.S.N.  
Surgeon General of the Navy



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